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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/452,367	11/30/1999	DANIEL G. SCHWEIKERT	P-3790	1232
75	90 05/21/2004		EXAMINER	
SERGE J. HODGSON			MITCHELL, JAMES M	
1900 GARDEN	ICKAY & HODGSON LL ROAD	P	ART UNIT	PAPER NUMBER
SUITE 220 MONTEREY,	CA 93940		2827	

DATE MAILED: 05/21/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	<u> </u>
	09/452,367 SCHWEIKERT ET AL.		
Office Action Summary	Examiner	Art Unit	- ·
	James M. Mitchell	2827	
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with	the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rep - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply bly within the statutory minimum of thirty (3 will apply and will expire SIX (6) MONTHS c. cause the application to become ABANI	y be timely filed 0) days will be considered timely. 5 from the mailing date of this communicat	tion.
Status			
1) Responsive to communication(s) filed on 23 J	anuary 2004.	1	
· - · · · · · · · · · · · · · · · · · ·	s action is non-final.		
3) Since this application is in condition for allowa		, prosecution as to the merits	is
closed in accordance with the practice under I			
Disposition of Claims			
4) Claim(s) <u>1-12,14-19 and 35-37</u> is/are pending			and the second s
4a) Of the above claim(s) is/are withdra 5) Claim(s) is/are allowed.	wn from consideration.		·
6)⊠ Claim(s) <u>1-7,10-12,14-17 and 35-37</u> is/are reje	actod		
7)☐ Claim(s) <u>8,9,18 and 19</u> is/are objected to.	oteu.		
8) Claim(s) are subject to restriction and/o	or election requirement		
	· oloculor roduitorite.		
Application Papers	·		•
9) The specification is objected to by the Examine		,	
10)⊠ The drawing(s) filed on <u>30 November 1999</u> is/a			
Applicant may not request that any objection to the			
Replacement drawing sheet(s) including the correct	ion is required if the drawing(s) is	s objected to. See 37 CFR 1.121((d).
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Of	fice Action or form PTO-152.	•
Priority under 35 U.S.C. § 119			
12)☐ Acknowledgment is made of a claim for foreign a)☐ All b)☐ Some * c)☐ None of:	priority under 35 U.S.C. § 11	9(a)-(d) or (f).	
1. Certified copies of the priority documents	s have been received		
2. Certified copies of the priority documents		cation No	
3. Copies of the certified copies of the prior			
application from the International Bureau	ı (PCT Rule 17 2(a))	cived in this National Stage	,
* See the attached detailed Office action for a list	of the certified copies not rece	eived.	
		. •	
Attachment(s).	and a separation of the second	S. Salahanda A. Salahanda Salahanda Salaha S	
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4)	ıary (PTO-413) il Date	,
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	5) U Notice of Inform	al Patent Application (PTO-152)	•
aper rio(s)/iviali Date	6)		

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DETAILED ACTION

Drawings

New corrected drawings are required in this application because pursuant to 37 C.F.R. §1.84, each sheet (i.e. Fig 5) must include a top margin of at least 2.5 cm. (1 inch), a left side margin of at least 2.5 cm. (1 inch), a right side margin of at least 1.5 cm. (5/8 inch). Applicant is advised to employ the services of a competent patent draftsperson outside the Office, as the U.S. Patent and Trademark Office no longer prepares new drawings. The corrected drawings are required in reply to the Office action to avoid abandonment of the application. The requirement for corrected drawings will not be held in abeyance.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 2, 6, 16 and 37 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. For claim 2, it is unclear how the shield line can be both separated from a first signal and be a part of a single conductor layer with the first shield line; they are mutually exclusive. For claims 2 and 16, it is unclear how the first shield and second shield line are a part of a single conductor layer; having a first and second shield line is mutually exclusive of them being part of a single conductor layer.

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To apply art, examiner assumes they are all within one layer of the device and not a single conductor layer.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 2, 4, 6, 16 and 35-37 are rejected under 35 U.S.C. 102(b) as being anticipated by Okumura (JP405343546).

Okumura (Fig 1a,b) discloses: (claim 1, 35, 36) a first signal line (Lft.11); a second signal line (Rt. 11); and a first shield line (12) positioned between but separated from said first signal line and said second signal line in an unused substrate area (via free of metallization), said first shield line being unconnected to a ground voltage source ("dummy"); (claim 4) wherein said first shield line has an area sufficient to prevent said first shield line from inherently causing capacitive coupling between said first signal line and said second signal line to be greater than if said first shield line was not present (Abstract; via reduction in capacitive coupling in dummy by long lines as indicated in applicant's spec. P. 13); and the first and second shield line are all apart of a single conductor layer (Fig 1b; a plane in layer 3 defined by the height of conductive material, 11, 12 etc.)

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(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1, 2, 3, 5-7, 10-13, 15-17 and 35-37 are rejected under 35 U.S.C. 102(e) as being anticipated by Koike (U.S. 6,649,997).

(Koike (Fig 8) discloses: (claim 1, 35, 36) a first signal line (not labeled connected Lft. metallization connected to source/drain); a second signal line (not labeled connected Rt. metallization connected to source/drain); and a first shield line (23a) positioned between but separated from said first signal line and said second signal line in an unused substrate area (free of metallization), said first shield line being unconnected to a ground voltage source ("dummy"); wherein said first signal line, said second signal line, and said first shield line are each in a different conductor layer (the conductors separated by spaces); (claims 5, 7, 15) and a second shield line (25a) electrically connected (understood to mean two electrically conductive materials touching) to said first shield line; wherein said first shield line is part of a first conductor layer and said second shield line is part of a second conductor layer (different materials (via crosshatch);(claim 14) with the first shield line having a first portion (reference from vertical plane with width going across x plane) and a second portion (reference from horizontal plane with width going downward);(claim 11,12) with a distance between said first and second signal line is at least twice the minimum distance allowable between features (particles of substrate) plus the minimum allowable width of a feature;

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(claim 12) wherein said first shield line has a width greater than the minimum allowable width of a feature (via particle of substrate).

Allowable Subject Matter

Claims 8, 9, 18 and 19 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter: the prior art does not disclose or make obvious the first shield line unconnected to a voltage source electrically connected to a second shield line by a via including all the limitations of the independent claim.

Response to Arguments

Applicant's arguments with respect to claims have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to James M. Mitchell whose telephone number is (571) 272-1931. The examiner can normally be reached on M-F 9:30-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kamand Cuneo can be reached on (571) 272-1957. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jpam

April 15, 2004

RAMAND CUNEO

SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2800